

UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new, non-provisional applications under 37 C.F.R. § 1.53(b))</small>		Attorney Docket No. AFD 613	
		First Inventor or Application Identifier Frederick R. Schauer	
		Title HYBRID PISTON-PULSED DETONATION ENGINE	
		Express Mail Label No. EE380648378US	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

MS Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

1. <input checked="" type="checkbox"/> *Fee Transmittal Form (e.g., PTO/SB/17) 2. <input type="checkbox"/> Applicant claims small entity status (See 37 CFR 1.27) 3. <input checked="" type="checkbox"/> Specification [Total Pages 13] (Preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R&D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Detailed Description - Claim(s) - Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 4] 5. Oath or Declaration [Total Pages 1] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;">ACCOMPANYING APPLICATION PARTS</p> 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 1.373(b) Statement <input checked="" type="checkbox"/> Power of Attorney 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure Statement (IDS) PTO/SB/08A <input type="checkbox"/> Copies of IDS Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (should be itemized) 15. <input type="checkbox"/> Certified Copy of Priority Document(s) 16. <input checked="" type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach for PTO/SB/35 or its equivalent. 17. <input type="checkbox"/> Other: _____ </div>
--	---

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76

☐ Continuation
 ☐ Divisional
 ☐ Continuation in Part (CIP)
 of prior application No: _____

Prior application information:
 Examiner _____
 Group / Art Unit _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5B, is considered to be a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

CORRESPONDENCE ADDRESS					
<input checked="" type="checkbox"/> Customer Number or Bar Code Label		26902 <small>(Insert Customer No. here)</small>		or <input type="checkbox"/> Correspondence address below	
Name	BOBBY D. SCEARCE				
Address	AFMCLO/JAZ				
	BLDG 11, ROOM 100				
	2240 B STREET				
City	WRIGHT-PATTERSON AFB	State	OH	Zip Code	45433-7109
Country	U.S.A.	Telephone	(937) 255-2838	Fax	(937) 255-3733

Name (Print / Type)	BOBBY D. SCEARCE	Registration No. (Attorney / Agent)	26,333
Signature		Date	11/12/2023

The PTO did not receive the following
 listed item(s): ABST

U.S. PTO
 10/706192
 111203

<div style="display: flex; align-items: center;"> <div> FEE TRANSMITTAL for FY 2004 <i>Patent fees are subject to annual revision.</i> </div> </div>				Complete if Known																																																																																																																																																																																																																																		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27				Application Number																																																																																																																																																																																																																																		
				Filing Date																																																																																																																																																																																																																																		
				First Named Inventor		Frederick R. Schauer																																																																																																																																																																																																																																
				Examiner Name																																																																																																																																																																																																																																		
				Group Art Unit																																																																																																																																																																																																																																		
TOTAL AMOUNT OF PAYMENT (\$) 770.00				Attorney Docket Number		AFD 613																																																																																																																																																																																																																																
METHOD OF PAYMENT				FEE CALCULATION (continued)																																																																																																																																																																																																																																		
<input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None																																																																																																																																																																																																																																						
Deposit Account Number: AF 01-0465 Deposit Account Name: Department of the Air Force																																																																																																																																																																																																																																						
The Commissioner is authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account																																																																																																																																																																																																																																						
FEE CALCULATION																																																																																																																																																																																																																																						
1. BASIC FILING FEE				3. ADDITIONAL FEES																																																																																																																																																																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Code (\$)</td><td>Code (\$)</td><td></td><td></td></tr> <tr><td>1001 770</td><td>2001 385</td><td>Utility Filing Fee</td><td>770.00</td></tr> <tr><td>1002 340</td><td>2002 170</td><td>Design Filing Fee</td><td></td></tr> <tr><td>1003 530</td><td>2003 265</td><td>Plant Filing Fee</td><td></td></tr> <tr><td>1004 770</td><td>2004 385</td><td>Reissue Filing Fee</td><td></td></tr> <tr><td>1005 160</td><td>2005 80</td><td>Provisional Filing Fee</td><td></td></tr> <tr><td colspan="3">SUBTOTAL (1)</td><td>\$ 770.00</td></tr> </tbody> </table>				Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	Code (\$)	Code (\$)			1001 770	2001 385	Utility Filing Fee	770.00	1002 340	2002 170	Design Filing Fee		1003 530	2003 265	Plant Filing Fee		1004 770	2004 385	Reissue Filing Fee		1005 160	2005 80	Provisional Filing Fee		SUBTOTAL (1)			\$ 770.00	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner Action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr><td colspan="6">*Reduced by Basic Filing Fee Paid</td></tr> <tr><td colspan="5">SUBTOTAL (3)</td><td>\$ -0-</td></tr> </tbody> </table>			Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description	Fee Paid	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner Action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1251	110	2251	55	Extension for reply within first month		1252	420	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,480	2254	740	Extension for reply within fourth month		1255	2,010	2255	1,005	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,330	2453	665	Petition to revive - unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	480	2502	240	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		1801	770	2801	385	Request for Continued Examination (RCE)		1802	900	1802	900	Request for expedited examination of a design application		Other fee (specify) _____						*Reduced by Basic Filing Fee Paid						SUBTOTAL (3)					\$ -0-
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																																																																																																																																			
Code (\$)	Code (\$)																																																																																																																																																																																																																																					
1001 770	2001 385	Utility Filing Fee	770.00																																																																																																																																																																																																																																			
1002 340	2002 170	Design Filing Fee																																																																																																																																																																																																																																				
1003 530	2003 265	Plant Filing Fee																																																																																																																																																																																																																																				
1004 770	2004 385	Reissue Filing Fee																																																																																																																																																																																																																																				
1005 160	2005 80	Provisional Filing Fee																																																																																																																																																																																																																																				
SUBTOTAL (1)			\$ 770.00																																																																																																																																																																																																																																			
Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																	
1051	130	2051	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																		
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																		
1053	130	1053	130	Non-English specification																																																																																																																																																																																																																																		
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																																																																																		
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner Action																																																																																																																																																																																																																																		
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																		
1251	110	2251	55	Extension for reply within first month																																																																																																																																																																																																																																		
1252	420	2252	210	Extension for reply within second month																																																																																																																																																																																																																																		
1253	950	2253	475	Extension for reply within third month																																																																																																																																																																																																																																		
1254	1,480	2254	740	Extension for reply within fourth month																																																																																																																																																																																																																																		
1255	2,010	2255	1,005	Extension for reply within fifth month																																																																																																																																																																																																																																		
1401	330	2401	165	Notice of Appeal																																																																																																																																																																																																																																		
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																																																																		
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																																																																		
1451	1,510	1451	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																		
1452	110	2452	55	Petition to revive - unavoidable																																																																																																																																																																																																																																		
1453	1,330	2453	665	Petition to revive - unintentional																																																																																																																																																																																																																																		
1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																																																																		
1502	480	2502	240	Design issue fee																																																																																																																																																																																																																																		
1503	640	2503	320	Plant issue fee																																																																																																																																																																																																																																		
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																																																																		
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)																																																																																																																																																																																																																																		
1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																		
8021	40	8021	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																		
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																																																		
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																																																		
1801	770	2801	385	Request for Continued Examination (RCE)																																																																																																																																																																																																																																		
1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																																																																																																		
Other fee (specify) _____																																																																																																																																																																																																																																						
*Reduced by Basic Filing Fee Paid																																																																																																																																																																																																																																						
SUBTOTAL (3)					\$ -0-																																																																																																																																																																																																																																	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE																																																																																																																																																																																																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>3 - 20** = 0</td> <td>0</td> <td>18</td> <td>0</td> </tr> <tr> <td>Indep. Claims 1 - 3** = 0</td> <td>0</td> <td>86</td> <td>0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Total Claims	Extra Claims	Fee from below	Fee Paid	3 - 20** = 0	0	18	0	Indep. Claims 1 - 3** = 0	0	86	0	Multiple Dependent																																																																																																																																																																																																																						
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																																																			
3 - 20** = 0	0	18	0																																																																																																																																																																																																																																			
Indep. Claims 1 - 3** = 0	0	86	0																																																																																																																																																																																																																																			
Multiple Dependent																																																																																																																																																																																																																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Code (\$)</td><td>Code (\$)</td><td></td><td></td></tr> <tr><td>1202 18</td><td>2202 9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201 86</td><td>2201 43</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203 290</td><td>2203 145</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204 86</td><td>2204 43</td><td>**Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205 18</td><td>2205 9</td><td>**Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="3">SUBTOTAL (2)</td><td>\$ -0-</td></tr> </tbody> </table>				Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	Code (\$)	Code (\$)			1202 18	2202 9	Claims in excess of 20		1201 86	2201 43	Independent claims in excess of 3		1203 290	2203 145	Multiple dependent claim, if not paid		1204 86	2204 43	**Reissue independent claims over original patent		1205 18	2205 9	**Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)			\$ -0-																																																																																																																																																																																																			
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																																																																																																																																			
Code (\$)	Code (\$)																																																																																																																																																																																																																																					
1202 18	2202 9	Claims in excess of 20																																																																																																																																																																																																																																				
1201 86	2201 43	Independent claims in excess of 3																																																																																																																																																																																																																																				
1203 290	2203 145	Multiple dependent claim, if not paid																																																																																																																																																																																																																																				
1204 86	2204 43	**Reissue independent claims over original patent																																																																																																																																																																																																																																				
1205 18	2205 9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																				
SUBTOTAL (2)			\$ -0-																																																																																																																																																																																																																																			
**or number previously paid, if greater; For Reissues, see above																																																																																																																																																																																																																																						
SUBMITTED BY						Complete (if applicable)																																																																																																																																																																																																																																
Typed or Printed Name		BOBBY D. SCEARCE		Registration. No.		26333																																																																																																																																																																																																																																
Signature				Telephone		(937) 255-2838																																																																																																																																																																																																																																
Typed or Printed Name				Registration. No.																																																																																																																																																																																																																																		
Signature				Telephone																																																																																																																																																																																																																																		
				Date		11/12/2003																																																																																																																																																																																																																																

**REQUEST AND CERTIFICATION
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor Frederick R. schauer
Title Hybrid Piston-Pulsed Detonation Engine
Atty Docket Number AFD 613

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 1.22(b).

11/12/2003
Date

Bobby D. Scarce
Signature

Bobby D. Scarce
Registration No. 26333
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and be submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 US.C. 122(b)(2)(B)(iii)).**